

5048

Diag. Cht. No. 8502 & 8556-1

Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. Patton, Director	
State: Alaska	
U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES JAN 5 1931 Acc. No. _____	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. 5048
LOCALITY	
Kodiak Island, Alaska	
(Cape Ikolik to Ayakulik Island).	
1930	
CHIEF OF PARTY	
F. H. HARDY.	

U. S. GOVERNMENT PRINTING OFFICE: 1928

5048

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. 5048

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 21

REGISTER NO. 5048

State Alaska

General locality Kodiak Island

Locality Cape Ikolik to Ayakulik Island

Scale 1:20,000 Date of survey June 5 ^{Aug 25} ~~July~~, 1930

Vessel Str. SURVEYOR

Chief of Party F.H.HARDY.

Surveyed by R.J.Sipe, A.C.Thorson.

Protracted by A.C.Thorson.

Soundings penciled by A.C.Thorson.

Soundings in fathoms feet

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated April 1-st,, 1930

Remarks:

XWW 4/31/94

DESCRIPTIVE REPORT

to accompany

Hydrographic Sheet No.21

Str.SURVEYOR.

F.H.Hardy, Com'd'g.

Scale 1:20,000

Date of Instructions.

This survey was executed according to instructions dated April 1-st, 1930.

Survey Methods.

The work on this sheet was executed from the Motor-Sailer. Handlead soundings were taken out to the 10 fathom curve and machine soundings in deeper water. A 10 pound lead was used for handlead sounding and an 18 pound lead for machine sounding. It was found by tests that in depths of over 10 fathoms, better results could be obtained by using the machine; this was due to the sounding chair being close to the water, making deep handlead sounding difficult. The machine used was located in the forward end of the Motor-Sailer and was directly powered from the Motor-Sailer engine. An experienced man read the sheave thruout. The sheave used, No.230, was tested on July 18-th, 1930 at Lazy Bay, Kodiak Island, Alaska. A distance of 50 fathoms was laid off on the wharf and the sheave tested up to that depth by hauling the wire over the sheave. Ranges were used running toward shore and compass courses running away from shore.

Limits.

The area covered by this survey comprises the inshore hydrography between Sail Rock, joining sheet 4953 and extending south along the coast to latitude 57°12' just south of Ayakulik Island where it joins field sheet No.22. On the west, this survey joins that on sheet No.61

Discrepancies.

Where sounding lines crossed, the soundings checked except in one case. On position 107 k-day and between positions 167-n-day and 168-n-day, there is a discrepancy of 11 feet. The same discrepancy occurs between positions 107 and 108-k-day.

Dangers.

There are no important dangers on this sheet. Lighthouse Rock should be given a berth of 300 meters. Little Bear Rock and Pillar Rock should be given a berth of 200 meters. Ayakulik Island should be given a berth of half a mile. No attempt should be made to pass between Ayakulik Island and the main-land.

Anchorage.

Bumble Bay affords a good anchorage except for southerly weather. Good shelter for larger vessels can be had in the bight east of Bumble Bay except for southwest weather.

Geographic Names.

The field party suggests the name Bumble Bay for the cove between Little Bear Rock and Pillar Rock.

Respectfully submitted,



A.C. Thorson, Jr. H. & G. E.

Approved
J. H. Sturdy
H. C. Sturdy

STATISTICS FOR FIELD SHEET No.21

Launch.	Date.	Day.	Vol.	Positions.	Soundings.	Miles Statute
Motor-						
Sailer	June	5. a	1	79	194	10.5
"	"	6. b	1	167	481	34.2
"	"	7. c	2	148	402	28.7
"	"	10. d	2	130	385	24.4
"	"	10. d	3	31	95	6.3
"	"	11. e	3	196	706	42.0
"	"	12. f	4	170	622	35.5
"	"	17. g	4	108	341	18.0
"	"	17. g	5	3	9	0.5
"	"	18. h	5	85	281	15.5
"	"	23. j	5	176	481	31.4
"	"	23. j	6	14	50	2.6
"	"	24. k	6	182	672	31.5
"	"	25. l	6	27	90	3.5
"	"	25. l	7	158	584	23.0
"	"	27. m	7	9	---	---
"	"	30. n	7	117	386	15.8
"	"	30. n	8	69	253	10.1
"	July.	1. p	8 2	71	280	12.6
Totals :-				<u>1940</u>	<u>6312</u>	<u>346.1</u>

List of Signals on Hydrographic Sheet # 21.

Hydrographic Name	Location	Hydrographic Name	Location
Pot	Photostat of T-4483	In	Topographic Sheet A
Mid	Topographic Sheet A.	Tip	do
Top	do	Ken	do
Pin	do	Tuk	ddo
Nut	do	No	do
Gul	do	Bum	do
Bean	do	Dak	do
Out	do	Yes	do
Lu	do	Me	do
Cow	do	If	do
Bul	do	To	do
Ho	do	Kiss	do
Ra	do	Cla	do
Et	do	Nat	do
Nel	do	Ole	do
Ben	do	Bar	do
Si	do	Run	do
We	do	Not	do
End	do	May	do
Rat	do	See	do
Boy	do	Mex	do (vol 6)
Gal	do	Rok	Hydrographic cuts, Page 2
Jam	do	Ab	Topographic Sheet A
Up	do	Tra	do
Sin	do	Ug	do
Dog	do	Vox	do
Green	do	Pop	do
Bo	do	Lib	do
Gee	do	Er	do
Shack	do	Ty	do
Brite	do	Sad	do
Pip	do	Hut	do
La	do	Lik	do
Rot	do	Spit	do
Hen	do		
Pi	do		
Do	do		
Ti	do		

*** Hydrographic Name. Location

Stone	Δ Tombstone Rock (1919)
Sail	Δ Sail Rock (1929)
House	Δ Light House Rock (1919)
Ik	Δ Ikolik (1919)
Bear	Δ Little Bear Rock (1930)
Pil	Δ pillar Rock (1930)
Bite	Δ Bite (1930)
Ada	Δ Ada (1930)
Flat	Δ Flat (1930)
Vak	Δ Yak (1930)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

FIELD STATION

202 BURKE BUILDING

SEATTLE, WASH.

14 APR - 4
FHH/MP

Mch. 31, 1931

*File in descriptive report
S.C.E.*

To: Director, U. S. C. & G. S.,
Washington, D. C.

From: Inspector, U. S. C. & G. S.,
Seattle, Wash.

Subject: Hydrographic Sheet No. 5048.

Reference: Director's letter of Mch. 20, 1931, 3-DRM.

Answer to your letter of Mch. 20th has been delayed as it reached the Station while I was inspecting chart agencies in Vancouver, B. C.

I remember distinctly in reviewing the sheet in the field Mr. Sipe said that he passed something that looked like a rock in the locality mentioned in your letter. Arrangements were made so that he could examine the spot under good conditions and he was unable to find any rock there and such a rock should not be shown on the chart.

On this working ground there were schools of small fish which in a choppy sea appear like a sunken rock and it was such a school that was mistaken for a rock. A note was made in the record so that later an examination could be made of this area, which was done and no rock found.

F. H. Hardy
F. H. Hardy.

3-IRM

March 20, 1931.

To: Commanding Officer,
U. S. Coast and Geodetic Survey,
Ship SURVEYOR,
Seattle, Washington.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Hydrographic sheet No. 5048.

In the records of Hydrographic Sheet No. 5048 (field No. 21) June 25, 1930, R. J. Sipe in charge, the following note appears opposite a position which plots about one mile northward of Ayakulik Island and 0.6 mile off shore: "Searching for rock seen on port side between positions 41 and 42. Unable to locate rock -- too choppy."

Unless some additional information can be given it will be necessary to chart this as a reported rock. If any further information is available, please forward as soon as possible.

(Signed) R. S. Patton

Director.

January 27, 1931.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
8 volumes of sounding records for

HYDROGRAPHIC SHEET 5048

Locality Kodiak I., Alaska (Cape Ikolik to Yak I.)

Chief of Party: F. H. Hardy

Plane of reference is mean lower low water, reading

3.6 ft. on tide staff at Lazy Bay
14.2 ft. below B. M. 1

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

Chief, Division of Tides and Currents.

Field Records Section

Report on Hydrs. Sheet No. 5048 Cape Ikolik - Kodiak I.
Surveyed in 1930

Chief of Party - F. H. Hardy.

Surveyed by - R. J. Sipe and A. C. Thorson

Protracted by - A. C. Thorson

Soundings penciled by - A. C. Thorson.

Verified and inked by. H. E. Mac Ewen

1. The records conform to the requirements of the General Instructions.
2. The plan and character of development fulfill the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions.
4. Where crossings occur the agreement is good. (~~exception noted in Remarks for no~~) no system of cross lines was employed - the only instances being on shoal developments, where all additional lines were run across the former lines previously run.
5. With the exception of the one fathom curve, and between Cape Ikolik and Signal O Dak, east of Pillar Rock the two and three fathom curves, the usual depth curves can be completely drawn. The sounding was not completed sufficiently close to shore to define the low water curve, but this was established by the

Report - Hydro. sheet 5048 (Per S, Cont.)

Topographic party and is represented by the usual topographic symbol (dotted line) on this sheet.

6. The field plotting was completed to the extent prescribed by the General instructions.

7. The office draftsman did not have to do over any of the drafting done by the field party.

8. The junctions with adjacent sheets, completed to date are satisfactory.

9. No further surveying is required to fully develop important areas within the limits of this sheet.

10. Inasmuch as all previous work done in the area covered by this survey is either reconnaissance or not done as completely, this work should supersede all previous work.

11. Remarks:

a. No boat sheet was received in the office with this sheet.

b. Position 121c, rock awash 110 meters N.W. of Δ House, located, ^{according to} ~~in~~ the sounding records, 10 meters S.W. of this fix, does not appear on the topographic sheet (4575) for this area.

c. Position 128c, rock awash 120 meters West of Δ House located, ^{according to} ~~in~~ the sounding records, 20 meters starboard of this fix, does not appear on the topographic sheet.

d. Rock awash, located by sextant cuts in the sounding records, 145 meters S.W. of Δ House. Appears along side a 13 fathom sounding. This rock is not shown on the topographic sheet.

e. Position 129C was accepted as plotted on the smooth sheet by the field party. This position is tied in to a rock awash located 50 meters southeast from O Lu. The note in the record indicates that the boat sheet position was accepted as correct but the boat sheet not having been received in the office, comparison cannot be made. The rock mentioned appears on the Topographic survey of this area and is considered sufficient to locate the position. A slight error was introduced in the transfer of this rock ^{to the smooth sheet,} ~~in position on the two sheets~~ ^{the difference} of the hydrographic sheet position being about eight meters.

f. Rock awash described as being 45m from position 24d, between O Ho and O Ra. does not appear on the Topographic sheet.

g. Position 166e falls close to the topographic location of two rocks - no mention is made in the sounding record of these rocks.

h. Position 125½ f is described in the record as being 5 meters S.W. of ^a rock. The nearest rock to this position shown on the topographic sheet is 60 meters in shore and the fix is S. by E. and not S.W. ($57^{\circ}15'56'' - 154^{\circ}38'27''$)

i. Rock W. by S. of Δ Yak 240 meters, is plotted from the location given in the sounding record. This rock does not appear on the Topographic sheet.

j. The topographic sheet shows a rock awash 60 meters S.W. of O Kiss. Position 66h with a depth of $3\frac{3}{4}$ fathoms falls directly on the topographic position of this rock. The rock has been added to the sheet.

- k. Rock awash 90 meters south of \odot Me appears on the topographic sheet as a sunken rock. No mention is made in the sounding records of the classification of this rock.
- l. Between 41 l and 42 l ($57^{\circ}14'20'' - 154^{\circ}35'40''$) a rock was reported seen (note in s.d.g. record Vol 7 page 7) the line broken for further examination. From the note it appeared that the examination was incomplete for disproving the existence of a rock at this spot. Inquiry was accordingly made to the Chief of Party on March 20th 1931 and information received that the area was examined carefully under favorable conditions and no rock found. (See letter of March 31, 1931 F.H. Hardy - attached to descriptive report). This rock was left off the sheet. (See also additional note in the sounding record Vol 7 page 7, F.M.S.).
- m. 60 meters north west of signal \odot Britz, the topographic sheet shows a rock awash. No mention is made of this rock on a day (1052-1062), which crosses the topographic location of this rock.
- n. Rock awash 45 meters North east of position 249 ($57^{\circ}16'40'' - 154^{\circ}46'15''$) does not appear on the topographic sheet.

Respectfully submitted
H. Maclewan
Asst. Comdr.

Reviewed March 12, 1931

Inspector, E. P. Ellis

Approved
A. M. Solieralski